duct, and when this current is impeded markedly white leg resulted. The case of the absorption of a poison into the cellular tissue (which, according to some, controverts White's opinion) was examined, and it appeared that this might or might not be followed by phicgmasia dolens, according as the obstruction in the lymphatics affected the main carrent or merely some minor channels (the latter being the rale); the swelling heing modified in severe eases, as hefore observed, by the relative action of the septie blood state and tissnes. Cases were quoted to prave that lymphatic obstruction is sufficient, and alone necessary, to give rise to phlegmasia dolens. The paper concluded with the following summary: 13. Phigmasia dolens is a local disease. 2. No general symptoms need he present (implying absence of hlood-poison). 3. Phichitis, however produced, cannot give rise to phlegmasia dolens, but cedema only. 4. Phlegmasia dolens may ocenr in, hut forms no necessary part of, blood poisoning (such as tends to phile-hitis), hut is modified thereby frequently; and any tissue conditions over and beyond the presence of fibrinous serosity, and the consequent hypertrophous state of the areolar tissae, are in nowise essential components of phlegmasia dolens, but common alike to very many different "blood" diseases. 5. Obstraction to the main lymphatic channels alone is capable of giving rise to white leg, and acts hy preventing the removal of the lymph from the affected limb. 6. The obstraction may be the result of (a) extrinsic pressure; (b) thromhosis dae to sudden (compensatory) absorption of vitiated fluid after sudden loss of any kind; (c) inflammatory changes in the vessels themselves (rare). 7. The effect of the action of venons obstruction upon the phlegmasia dolens is an intensifiention of the general swelling, and the presence of cedema during the subsidence of the enlargement of the limb. Lastly, a frequent, hat narecognized, source of blood-vitiation was alluded to, namely, in cases where large tracts of cellular tissue were discased—as in erysipelas, slonghing, caneerons, phthisical, and dysenteric ulcerations, and the like—the lymphatics, charged with effete matter, and an excessive number of imperfectly-developed pule eells, formed in their glandular part, ponred their contents into the venous system from the thoracie duet; and this might be a cause of thrombosis at the right side of the heart and in the vessels leading to the lang .- Med. Times and Gaz., July 12, 1862.

HYGIENE.

48. Influence of Railway Travelling on Public Health.—The Nos. of the Lancet for Jan. 4, 11, 18, and 25, Feb. 1 and 8, and Moreh 8, contain an elaborate report of a commission appointed to investigate this sahject. It will be seen from the following concluding paragraphs that they consider its influence

to be unfavourable:-

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"The efficiency of the rapid conenssions incidental to railway travelling in developing or aggravating epilepsy, chronic spasm, cerebral softening, and spinal softening, has heen studied, not by the light of vague conjecture, hat npon the anthority of strictly-observed cases in the practice of men such as Sir Ranald Martin. Dr. Brown-Seqnard, Dr. Radeliffe, and others. The partienlar influence of cold and dranght has heen hranght ont prominently by Dr. Williams; while this has heen placed in necessary juxtaposition with the exact inquiries as to ventilation and relutive purity of the air in railway earriages by Dr. Angus Smith. The mischief following from nudne retention of the secretions is sufficiently and practically illustrated in the case by Mr. Hilton. The nature of the impressions ow well studied by Sir David Brewster has been traced to its pathological consequences by Mr. White Cooper. Dr. Fuller's ingenions observations on the part played by the auditory nerve in conveying to the hrain strong and incessantly repeated impressions of sound, are of a practical and suggestive character. This is, no donkt, one canse of the peculiar effects of continued railway traveling, which had not heen well known, and of which the mischief is preventable. The almost certainty with which a long railway journey will, in some pregnant

women, produce ahortion, has heen well illustrated in the communications by Dr. Meadows and Dr. Graily Hewitt. The acceleration of the palse in railway travelling is one of the indications of the extent to which this form of passive excreise taxes the system; but all physiological deductions require to he received with great reservation, as the disturbing elements are so many and various.

"There are only two classes of persons especially likely to he injuriously affected by moderate railway journeys, even though frequent: they are persons advanced in life and of weakened power, and those who are subject to the special diseases which have already been studied in this relation. The actual exertion, the excitement, the mental strain, the peculiar influences of the motion of a railway carriage, indicute its dangers to those first mentioned. These constitute a small minority. But there are a number of persons who, although not far advanced in age, are yet the subjects of various conditions of dl-health depending on insidious degenerative disease of the hrain and heart. The season-ticket holders of the railways are in large numbers men who bave passed the best years of their life in hard and exhausting employment of mind and body. They are the successful merchants; the senior partners of flourishing firms, which they have built up by a life of labour; half-retired tradesmen; half-invalid bankers. et id genus omne. We can now see that it is by the injuries which have resulted to these men from their constant travelling to and from town that an impression has become current as to certain mischiefs which habitual travelling inflicts. When it is stated that such a banker, who comes up fifty miles three or four times a week, has to lie down half un hoar before he can sign a check; thut such a well-known ebemist has suffered from symptoms of brain excitement since he hought his new house by the sea, and travelled daily to London; or that a certain barrister has found himself obliged to pay for his journey by epileptic seizures, the alarm soon extends he ond reasonable limits. But few men can endure without suffering to travel fifty or a hundred mides daily to their business for any length of time. The influence of the journey itself is heightened by many accessory conditions to which we have adverted; and the present construction of the rails and earriages is such as to deprive the traveller of all those mitigations by which his discomfort might be diminished and his health safe guarded.

"Amongst the unprecedented collection of cases brought under our notice during this inquiry, there have been recorded several of serious mischief, and even death, from persons in ill health hurrying to cutch trains and sitting down, heated and breatbless, in the dranght caused by the moving of the train which they have just managed to he in time for. It is almost exclusively at large termini that these cases have occurred, and that the cause of them obtains. Now, this rushing in at the last moment, we are informed, is hecoming more frequent; and consideration of the condition in life of those who constitute the majority of season-ticket holders, would indicate how this evil arises. We believe it would be advantageous to public health and safety, however harsh it may at first appear, that the doors at termini should he closed five minutes previous to the departure of each train, so that sufficient time should be allowed for passengers to quietly settle themselves, and also for the officials, who are often (as one of them graphically expressed it) 'torn to pieces' just at the last moment. It is well known that the difficulties with luggage, which this nrrangement would obviato, are frequently causes of delay in starting trains. Then there is high speed to make up lost time, or want of punctuality, both of them fraught with

danger to passengers.

"It has been shown that the injurious effects which habitnal railway traveling produces on some who escape sach influences when only taking occasional journeys are very marked. In such persons, heedless continuance comes to he a cause of disease. In some, there have been no previous symptoms that they could recognize, or such as would have deterred them from undertuking the daily joarney; and thas the season ticket is taken, and has soon to be disused. In all cases the evidence points to the conclusion that the injurious influence slowly and gradually increases which the cause remains—that tolerance is not

esta blished by persistence.

"It is too much the enstom, when adopting a country residence on a railway line, to make no arrangements of husiness according to the diminished time for

work which the daily interval between the moraing and evening trains allows. Hence that hnrry, anxiety, and working of the hrain at high pressure, which, of all things, tends to develop in susceptible persons such injurious effects on health as habitual railway travellers often experience. The remedy for this is obvious: 'Unt your cost according to your cloth.—' Mene tenus propria vive'— 'Selou le pain il faut le couteau,' are saws proved to he wise. But we helieve that no person is justified in undertaking a series of coutinous; journeys by rail moder the conditions alluded to (if ander any circumstances), without previously consulting his medical attendant as to their probable effect on bis health, the precantions he sbould adopt, and the warning symptoms which he may not safely disregard.'

MEDICAL JURISPRUDENCE AND TOXICOLOGY.

49. Poisoning with Upas Tieute.-Some time since a gentleman of Berlin received from Java some of the arrow-poison, upas tienté, und fearlessly subjected himself to the action of the poison. He took three grains of the substance, which he found to have a very bitter and slightly saline taste. After having swallowed it, the Doctor felt more cheerful, and a headache which he had had passed off; on the other hand, a feeling of heaviness in the stomach supervened. He soon afterwards left his rooms and went out; and the first sign of the netion of the poison having heguu, was that ou turning round the corner of a street acd feeling a strong wind, he perceived n sort of stretching all along the spine. This was half an hour after he had taken the poison. An hour afterwards, on heing about to take u cup of coffee, he suddeuly felt u violent concussion of the whole hody, succeeded by powerful stretchings of all the extremities; at the same time the head was drawn backwards. He endcavoured to speak, but could not open his This paroxysm soon ceased, but others followed rapidly, either spoutaucously or after the slightest stimulus. Cousciousuess was not in the least disturbed. The fits were not painful, the respiration was not impeded, and the museles remained quite flaceid after the fits. Swallowing was difficult, and the patient felt very weak. He then desired to be brought to the Charité Hospital. and on heing earried down stuirs violent spasms came on; while in the cah which took him to the hospital, he was quite free from them. He was transferred to the clinique of Professor Frerichs, where incenenanha and tartar emetic were ut once given, as it was supposed that part of the poison might still be in the stomach. Copious vomiting eusued, uccompanied by tetanic couvulsious, spasm of the glottis and dyspacca; but the latter ceased with the vomiting. Further convulsive fits followed either spoutaneously or on tonehing the patient's hody or the bed, or ou suddenly directing a light to the eye. The pulse was 72, and there were uo other morbid symptoms. The patient now took ten drops of landannm every quarter of an honr, und after three sneb doses, he took fifteen drops every half honr. Having thus altogether taken sixty drops he fell asleep. He perspired freely, and was repeatedly awakened by tension and convulsious of the museles of the neck und the hack; hut on taking n few more drops, he soou fell usleep again, and remained so for twelve hours. On awakening the next morning he felt exceedingly weak; there was still some stretching in the muscles of the left side of the neck, but no spasms. The pulse was at 66. Swallowing was still impeded, and the urine passed off with difficulty. This was found to contain strychuia. The landanum was then discontinued, and the patient merely took wine and easily digestible food. On the third day he was able to leave his hed, and on the sixth his health was quite re-established.

The poison was subjected to examination in the chemical laboratory connected with the hospital. It was contained in a piece of hamboo-caue, and consisted of a coarse-grained reddish-hrown substance, in which several sbining cystals were seen. On putting some of it under the microscope, amorphous grains and small tetahedral crystals were discovered. A small trace of this substance gave u strong reaction of strychuin, and it was found that in u hundred parts

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